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MODULE EXERCISES – CONSTRUCTION 1

1. Consider the following statements regarding types of construction contracts and mark the correct options.
a. in cost plus percentage of cost contract, customer is at most risk of absorbing excessive cost overruns.
b. in firm-fixed price contract, contractor is most likely to control cost.
c. in firm-fixed price with economic adjustments contract, the contractor is given relief for inflation.
d. fixed-price contract requires maximum follow up on work.

a. a,c,d **b. a,b,c** c. a & d d. b & c

2. Which of the following are essential conditions of contracts?
a. discrete subject matter
b. competent parties
c. free consent
d. must not be declared void by the law in force.

a. a,b,c b. b,c,d **c. a,c,d** d. b & c

3. In arriving at a resource-based schedule bar chart for a construction project, the following stages far planning of the work are involved:
a. finalizing a network of activities.
b. determine the optimal activity durations, and considering the relevant parameters.
c. computation at time.
d. developing the resource-based bar-chart and the corresponding histograms and mass curves of resources.
e. identification of the critical constraining resource.
f. deciding the criteria of optimization.

The correct sequence of these stages in planning of the work will be.

a. a,f,b,c,e,d b. f,b,a,c,d,e c. a,b,c,f,e,d d. b,a,c,e,f,d

4. Consider the following statements in the bar chart planning.
a. interdependence of the operations cannot be portrayed
b. progress of work can be measured
c. space time of the activities can be determined
d. schedule cannot be updated

Which of these statements are correct?
a. a,b,c b. a & d c. b,c,d d. a,b,d

5. Which of the following statements is/are correct?
a. tender is an agreement enforceable by law
b. arbitration is the process of the settlement of a dispute by impartial referees agreed upon by the parties concerned

a. a & b b. a only **c. b only** d. none

6. Which of the following statements is/are correct?
a. line of balance technique is useful for planning the construction of a number of similar structures
b. critical path is the shortest path in the project network
c. gantt chart can't identify critical activities

a. a,b,c b. a & b c. b & c **d. a & c**

7. Which of the following statements is/are incorrect?
a. a bar chart does not show the progress of work and hence it cannot be used as a control device.
b. network diagram can be used even for highly complicated projects consisting of a large number of activities.

a. a & b b. a only c. b only **d. none**

8. Which of the following statements is/are correct?
a. ladder networks can be interrupt into CPM (AOA Network)
b. interface nodes can, if so mandated, be connected to identified nodes of a ladder network.
c. ladder networks enable uninterrupted utilization of equipment
d. critical path through a ladder network can easily be deciphered.

a. a only **b. b & c** c. c & d d. a,b,d

9. Which of the following statements is/are correct about WBS (Work Breakdown Structure)?
a. in WBS, top down approach is adopted
b. facilitates and improve the decision making for procurement of resources
c. coordinates regarding milestone events across trade specializations to improve the synergy between the trade.

a. a & b b. b & c c. a & c **d. a,b,c**

10. Which of the following statements is/are correct about contract?
a. it is an agreement
b. this agreement must be enforceable by law
c. liquidated damages is a clause which ensures the completion of the project as per original schedule.

a. a & b b. b & c c. a only **d. a,b,c**

11. Which of the following statements is/are correct about Tenders?
a. tender notice contains documents regarding cost of project, drawings of project, time of completion, etc.
b. security money is deposited by all the bidders

a. a only b. b only c. a & b d. none

12. Match List-I with List-II and select the correct answer using the codes given below the list
List-I (Bar Chart)
A. milestone
B. linked
C. gantt
D. resource-based

List-II (Highlights : and is adapted for)
1. computation of resource histograms
2. activity relationships
3. updating and re-railing
4. activity duration
5. monitoring and interfaces

CODES:

	A	B	C	D
a.	3	2	4	1
b.	**5**	**2**	**4**	**1**
c.	3	4	2	5
d.	5	4	3	1

13. Match List-I (indications of terms) with List-II (terms) and select the correct answer using the codes given below the lists:
List-I
A. used for recording instructions given by the Executive Engineer at site
B. used widely for civil engineering construction
C. one of the principles of organizations
D. one of the functions of the management

List-II
1. coordination
2. unity of command
3. line organization
4. site order book

CODES:

	A	B	C	D
a.	**4**	**3**	**2**	**1**
b.	4	2	3	1
c.	1	4	1	3
d.	4	1	2	3

14. Which of the following statements is/are correct?
a. prequalification of tenders is not required in case of bigger and complex project
b. the project promoter is not liable to make any payment to the subcontractor

a. a only **b. b only** c. a & b d. none